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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 683,723	02 07 2002	Hung-Yi Wu	STCP0007USA	8650

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P.O. Box 506
Merrifield, VA 22116

EXAMINER

KANG, JULIANA K

ART UNIT

PAPER NUMBER

2874

DATE MAILED: 11 29 2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/683,723

Applicant(s)

WU, HUNG-YI

Examiner

Juliana K. Kang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133)
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6, 8 is/are rejected.
- 7) ☒ Claim(s) 5 and 7 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1 ☒ Certified copies of the priority documents have been received.
2 ☐ Certified copies of the priority documents have been received in Application No. ____.
3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

2. Claims 4-7 are objected to because of the following informalities: it appears that the claim 4 should be dependent on claim 3, not claim 1 because claim 4 lines 1 and 2 recites the limitation, "the optical emitter and the optical receiver," which are recited in claim 3 but not in claim 1. Appropriate correction is required. Claims 5-7 are dependent on claim 4, and thus inherently contain the deficiencies thereof.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

4. Claims 1-4 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones et al (U.S. patent 6,347,954 B1).

Regarding claim 1, Jones et al disclose an optical transceiver module comprising a housing (1), a connector (3) for connecting with the housing, an optical sub assembly (41, 42) installed within the connector (3) for receiving or emitting optical signals, a printed circuit board (5) installed within the housing and a clipping device (33) disposed within the housing for fixing the optical sub assembly to electrically connect the sub assembly with the printed circuit board (see column 5 line 64 to column 6 line 3).

Regarding claim 2, Jones et al's clipping device is a hook that is inserted into an opening (500) of the printed circuit board (see column 5 lines 4-7).

Regarding claim 3, Jones et al disclose a fiber connector 27, which is connected with two fiber cables 28 and 29, connected to the optical emitter and receiver (see column 6 lines 29-32).

Regarding claim 4, Jones et al disclose the laser diode and photo diode having a plurality of pins (411, 421) disposed in guiding slots (30) so as to electrically connect the printed circuit board (see column 5 lines 54-60).

Regarding claim 6, Jones et al disclose that the pins are soldered onto the printed circuit board (see column 6 lines 1-3).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al.

Regarding claim 8, as described above, Jones et al disclose the claimed invention including the clipping device. However, Jones et al does not teach that the clipping device is formed of plastic material. Jones et al disclose that the connector (3) is made of insulative material (see claim 1 of Jones et al) and Jones et al's clipping device is a part of the connector (3). Since Jones et al teach that the clipping device is made of insulative material and plastic is a well known insulative material, it would have been obvious to one with ordinary skill in the art at the time the invention was made to use a well known plastic insulative material for Jones et al's clipping device.

Allowable Subject Matter

7. Claims 5 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and when applicant amends the claim to over come the objections stated above in paragraph 2.

Regarding claim 5, the closest prior art of record, Jones et al, do not disclose or reasonably suggest the claimed transceiver module with the specific elements and the specific combinations including clamping arms that clamp the pins of the optical emitter and the optical receiver with the printed circuit board as set forth in claim 5.

Regarding claim 7, the closest prior art of record, Jones et al, do not disclose or reasonably suggest the claimed transceiver module with the specific elements and the

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specific combinations including a clamping plate and a rod for inserting into a hole of the clipping device as set forth in claim 7.

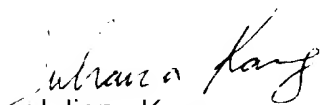
Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kozel et al (U.S. Patent 6,264,481 B1) teach a transceiver socket mounted on a printed circuit board. Berg et al (U.S. Patent 5,980,324) show a connector for coupling an optical transceiver module and an electric circuit board.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juliana K. Kang whose telephone number is (703) 305-6259. The examiner can normally be reached on Mondays and Thursday 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rod Bovernick can be reached on (703) 308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-3072.


Juliana Kang
November 26, 2002